

CLAIMS:

1. In a fluid coupling having an impeller with an impeller casing connected to an input shaft and a runner connected to an output shaft, said input and output shafts being oriented substantially horizontally, said impeller being driven by a diesel engine, a reservoir and a circulating oil pump located in said reservoir, said reservoir being positioned vertically below the level of said impeller and runner casings and said input and output shafts, said oil pump being a part of a circulating oil system, a heat exchanger operatively connected in said circulating oil system, the improvement comprising a vent pipe in a top of said heat exchanger and communicating with said oil reservoir, whereby to vent said heat exchanger.

2. The improvement of claim 1 including a filter through which all of the oil passes that is going to the fluid coupling, the filter removing all particulate matter larger than a specified size.

3. In a fluid coupling having an impeller with an impeller casing connected to an input shaft and a runner connected to an output shaft, said input and output shafts being oriented substantially horizontally, said impeller being driven by a diesel engine, a reservoir and a circulating oil pump located in said reservoir, said reservoir being positioned vertically below the level of said impeller and runner casings and said input and output shafts, said oil pump being a part of a circulating oil system, a heat exchanger operatively connected in said circulating oil system, the improvement comprising a heating element located in said reservoir, to heat the oil in cold start conditions.

4. The improvement of claim 3 including a thermostatic control of said heating element.